California Environmental Protection Agency California Environmental Protection Agency California Environmental Protection Agency

AB VOLVO PENTA

EXECUTIVE ORDER U-R-014-0144 New Off-Road Compression-Ignition Engines

Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-14-012;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control system produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)			
2015	FVPXL12.8CJA	12.8	Diesel	8000			
	FEATURES & EMISSION		TYPICAL EQUIPMENT APPLICATION				
Exhau	c Direct Injection, Turbo Cooler, Electronic Contr st Gas Recirculation, Sn Selective Catalytic Redu	ol Module, noke Puff Limiter,	Crane, Loader, Pump, Compressor				

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kW-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED POWER	EMISSION	-	EXHAUST (g/kW-hr)					OPACITY (%)			
CLASS	STANDARD CATEGORY		HC NO	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK	
130 ≤ kW ≤ 560	Tier 4 Final	STD	0.19	0.40	N/A	3.5	0.02	N/A	N/A	N/A	
		CERT	0.02	0.22	-	0.1	0.02	8/4/	-	-	

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this

day of November 2014.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

Engine Model Summary Template

Attachment 181

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Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: m/stroke @ peak HP (for diesel only)	5.Fuel F (lbs/hr) @ p (for diesel		7.Fuel Rate: mm/stroke@pea k torque	8.Fuel F a (lbs/hr)@ torqu	peak De	9.Emission Control evice Per SAE J1930	
FVPXL12.8CJA	1	TAD1371 VE	382@1900	208	133	1965 Nm@1200	264 1	07 DD	I,EM, E	CM, CAC, TC, SP	L, SCR-U, EGR
FVPXL12.8CJA	11 .	TAD1372 VE	422@1900	229	146	2175 Nm@1200	290 1	17 DD	I,EM, E	CM, CAC, TC, SP	L, SCR-U, EGR
FVPXL12.8CJA		TAD1373 VE	463@1900	248	159	2380 Nm@1200	317 1	28 DD	I,EM, E	CM, CAC, TC, SP	L, SCR-U, EGR
FVPXL12.8CJA	IV	TAD1374 VE	503@1900	268	171	2595 Nm@1200	348 1	41 DD	I,EM, E	CM, CAC, TC, SP	L, SCR-U, EGR
FVPXL12.8CJA	V	TAD1375 VE	543@1900	290	185	2650 Nm@1200	353 1	43 DD	I,EM, E	CM, CAC, TC, SP	L, SCR-U, EGR
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